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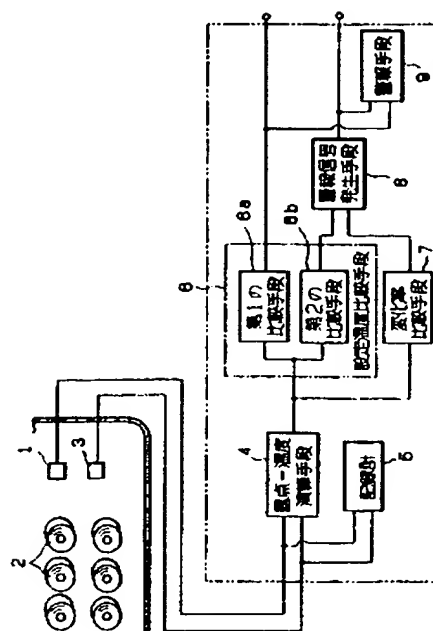
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TITLE : DEW CONDENSATION MONITORING
DEVICE



ABSTRACT : PURPOSE: To prevent dew from being condensed by detecting and comparing the dew point of an atmosphere and the temperature of articles with set values, and generating the 1st warning at the time the temperature exceeds the 1st temperature T_1 and the 2nd warning at the time the temperature rises above the 2nd temperature T_2 and the rate of temperature variation within a specific time ΔT exceeds a set value ΔP .

CONSTITUTION: The dew point in a warehouse and the temperature of a steel plate 2 are converted to the same level by sensors 1 and 3 respectively and the difference between the signals of both sensors is calculate 4. The temperature difference signal is compared 6a with the set temperature T_1 and the warning is generated 9, for example, in case the signal is higher than $T_1=+2^\circ\text{C}$. Further, at the time of the temperature difference signal increases above the set value $T_2=+4^\circ\text{C}$ and exceeds the temperature variation rate $\Delta P=2^\circ\text{C}$ set within the specific time $\Delta T=5\text{min}$, the warning is generated 9. Here, T_1 and T_2 are $-5\sim 20^\circ\text{C}$, $0<\Delta T\leq 10\text{min}$, and $0<\Delta P\leq 5^\circ\text{C}$. In this constitution, even if the dew point or temperature varies abruptly, that is detected accurately to generate a warning and dew condensation is monitored with high reliability.

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